

vessels in the reactor for containing said reaction mixtures
5 under pressure, and

an injection system for introducing fluid into the vessels
at pressures different from ambient pressure, said injection
system comprising:

a movable fluid delivery probe;

10 fill ports for receiving the probe, said
probe being movable from one fill port to
another to deliver fluid;

A²
conduits connecting the fill ports and respective
vessels; and

15 valves for opening and closing said conduits, each
valve being operable to open to permit the delivery of
fluid from the probe to a respective vessel at a
pressure different from ambient pressure, and to close
after said delivery.

164. Apparatus as set forth in claim 163 wherein each fill
port is configured for the insertion of said probe therein, said
apparatus further comprising a seal in each fill port for sealing
engagement with the probe when the probe is inserted in the fill
5 port.

Sub C17
165. Apparatus as set forth in claim 164 wherein said valves are located in said conduits downstream from respective fill ports, and wherein each valve is operable to close before the probe is completely withdrawn from a respective fill port.

Sub D27
A2
166. Apparatus as set forth in claim 163 wherein said valve comprises a poppet movable by pressure away from a valve seat to open said conduit, and a spring for biasing the poppet toward said seat to close the conduit.

5 Sub C27
167. Apparatus as set forth in claim 163 wherein said reactor comprises a reactor block having a series of wells therein extending down from an upper surface of the block for removably receiving said vessels therein, and a manifold mounting the fill ports generally adjacent the upper surface of the reactor block, said conduits comprising passages in the manifold in fluid communication with said fill ports for flow of fluid from the probe to said vessels.

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168. Apparatus as set forth in claim 167 wherein each fill port comprises a body attached to said manifold, a bore through the body in fluid communication with a respective passage in said manifold, and a seal in said bore adapted for sealing engagement with the probe when the probe is inserted in said bore.

Sub D27
169. Apparatus as set forth in claim 163 further comprising a robot system for moving the probe between said fill ports.

170. Apparatus as set forth in claim 169 wherein each vessel has a volume in the range of 1-100 ml.

171. Apparatus as set forth in claim 163 wherein said fluid is in liquid form.

172. A method of introducing fluid into a plurality of pressurized vessels in a parallel reactor, said method comprising:

(1) pressurizing said vessels to a pressure other than ambient pressure,

(2) inserting a fluid delivery probe into one of a plurality of fill ports on the reactor communicating with a first vessel of said plurality of vessels,

(3) injecting a quantity of fluid from said probe for delivery through an open valve to the first pressurized vessel,

(4) effecting closure of the valve after injection of said fluid,

(5) withdrawing said probe from the fill port after closure of the valve, and

(6) repeating 2-5 for a second vessel of said plurality of vessels.